

**NEW JERSEY ADMINISTRATIVE CODE
TITLE 7.
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**CHAPTER 28
RADIATION PROTECTION PROGRAMS**

SUBCHAPTER 41 MERCURY VAPOR LAMPS

7:28-41.1 Purpose and scope

This subchapter applies to indoor and outdoor facilities using mercury vapor lamps for illumination and establishes safety requirements for their use.

7:28-41.1 Definitions

The following words and terms, when used in this subchapter, shall have the following meanings unless the context clearly indicates otherwise.

“Mercury vapor lamp” means a mercury vapor or metal halide lamp incorporating a high-pressure arc discharge tube that has a fill consisting primarily of mercury and that is contained within an outer envelope (it does not include the tungsten filament self-ballasted mercury vapor or metal halide lamp).

“New facility” means any building for which a certificate of occupancy has been issued subsequent to the effective date of this subchapter.

“Non-self-extinguishing mercury vapor lamp” means a mercury vapor lamp which does not comply with the requirements for a self-extinguishing mercury vapor lamp, hereinafter defined.

“Outer envelope” means the lamp element, usually glass, surrounding a high-pressure arc discharge tube, that when intact, attenuates the emission of ultraviolet radiation.

“Self-extinguishing mercury vapor lamp” means a mercury vapor lamp which shall cease operation within a cumulative operating time not to exceed 15 minutes following breakage or removal of at least three square centimeters of contiguous surface of the outer envelope. Self-extinguishing lamps manufactured prior to September 7, 1981 shall cease operation within a cumulative operating time not to exceed 15 minutes following complete breakage or removal of the outer envelope.

“Shortwave ultraviolet radiation” means radiation with a wave-length shorter than 320 nanometers.

7:28-41.1 General requirements for indoor installations

(a) No person shall cause, suffer, allow or permit the installation or use of a mercury vapor lamp in any indoor area which may be occupied by people unless the following requirements are met:

1. The mercury vapor lamp is of the self-extinguishing type; or
2. The mercury vapor lamp is of the non-extinguishing type provided it is installed within a totally enclosed lighting fixture with a protective shield which protects the lamp from damage and absorbs shortwave ultraviolet radiation.

(b) The provisions of this section shall be fully met within one year after the effective date of this

chapter.

7:28-41.1 General requirements for outdoor installations

(a) No person shall cause, suffer, allow or permit the installation or use of a mercury vapor lamp in any outdoor area where people are likely to remain in the area of illumination for periods in excess of 15 minutes unless the following requirements are met:

1. The mercury vapor lamp is of the self-extinguishing type; or
2. The mercury vapor lamp is of the non-extinguishing type provided it is installed within a totally enclosed lighting fixture with a protective shield which protects the lamp from damage and absorbs shortwave ultraviolet radiation.

(b) The Department may exempt certain outdoor mercury vapor lamp installations from the provisions of (a) above, provided the Department has determined that sufficient precautions have been taken to minimize the possibility of over-exposure to shortwave ultraviolet radiation.

(c) The provisions of this section shall be met within one year after the effective date of this subchapter.